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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/711,400	09/16/2004	Philippe Gambier	68.0468	5399	
35204	7590 12/16/2005		EXAM	EXAMINER	
	BERGER RESERVOIR (	FULLER, I	FULLER, BRYAN A		
14910 AIRLINE ROAD ROSHARON, TX 77583			ART UNIT	PAPER NUMBER	
	,		3676		

DATE MAILED: 12/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summer		Ar	pplication No. Applicant(s)					
		10	0/711,400	GAMBIER, PHILI	GAMBIER, PHILIPPE			
Office Action Summary			aminer	Art Unit				
			yan A. Fuller	3676				
Period fo	The MAILING DATE of this commun r Reply	nication appears	s on the cover shee	t with the correspondence a	ddress			
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE Nations of time may be available under the provisions SIX (6) MONTHS from the mailing date of this come period for reply is specified above, the maximum si- re to reply within the set or extended period for reply eply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	MAILING DATE s of 37 CFR 1.136(a). munication. tatutory period will ap y will, by statute, caus	OF THIS COMMU In no event, however, ma ply and will expire SIX (6) the the application to become	INICATION.  by a reply be timely filed  MONTHS from the mailing date of this one ABANDONED (35 U.S.C. § 133).				
Status								
1)⊠	Responsive to communication(s) file	ed on 16 Sente	mher 2004					
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٠,١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims	,		,,				
4)⊠	Claim(s) <u>1-26</u> is/are pending in the	application						
•			rom consideration					
	4a) Of the above claim(s) is/are withdrawn from consideration.  Claim(s) is/are allowed.							
	Claim(s) <u>1-26</u> is/are rejected.							
-	Claim(s) is/are objected to.							
·	Claim(s) are subject to restrict	ction and/or ele	ection requirement					
•		3.1311 ama/3/ 313	otton roquii omoni.					
	on Papers			•				
, —	The specification is objected to by the		_					
10)[]	The drawing(s) filed on is/are		, •	•				
	Applicant may not request that any obje		Ŧ · ·					
	Replacement drawing sheet(s) including	-	•		* *			
11)	The oath or declaration is objected t	o by the Exami	ner. Note the attac	hed Office Action or form P	TO-152.			
Priority u	ınder 35 U.S.C. § 119							
a)[	Acknowledgment is made of a claim  All b) Some * c) None of:  1. Certified copies of the priority  2. Certified copies of the priority  3. Copies of the certified copies application from the Internations the attached detailed Office actions.	documents ha documents ha of the priority o	ve been received. ve been received i documents have be CT Rule 17.2(a)).	n Application No een received in this Nationa	l Stage			
2) 🔲 Notic 3) 🔯 Inforr	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (I nation Disclosure Statement(s) (PTO-1449 or r No(s)/Mail Date 9/16/04, 9/21/04.		Paper	ew Summary (PTO-413) No(s)/Mail Date of Informal Patent Application (PT 	<sup>-</sup> O-152)			

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#### **DETAILED ACTION**

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#### Specification

1. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

- 2. The abstract of the disclosure is objected to because it contains phrases which can be implied. In line 1 the applicant uses the phrase "One aspect of the present invention is." In lines 4 and 5 the applicant uses the phrase "Another aspect of the present invention is." In line 6 the applicant uses the phrase "Yet another aspect of the invention relates to." In lines 8 and 9 the applicant uses the sentence "Other aspects and features of the system and method are also described." Correction is required. See MPEP § 608.01(b).
- 3. The abstract of the disclosure is objected to because lines 9 13, which starts with, "It is emphasized ..." is an unnecessary sentence stating the abstract's alleged compliance with 37 CFR 1.72(b). Correction is required. See MPEP § 608.01(b).

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#### Claim Objections

4. Claim 2 is objected to because of the following informalities: Claim 2 includes an acronym that needs to be spelled out. This objection could be overcome if "MEMS" was replaced with -- Micro-Electro-Mechanical Systems (MEMS) --. Appropriate correction is required.

## Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1, 4 10, 12 16, 18 21, 23, and 25 26 are rejected under 35 U.S.C. 102(b) as being anticipated by Willauer (6,540,019).

With respect to claims 1, 4 – 10, 12 - 16: Willauer teaches in column 1, line 35 – column 4, line 67 and in Figures 1 – 10 a packer/completion that comprises a sensor positioned therein. The sensor comprises a pressure gauge (30). The reference does not expressly say it uses a gauge. However, a pressure sensor is inherently a pressure gauge. The packer is inflatable thus it inherently comprises a setting chamber. The packer further comprises a second sensor (62 or 64) above the packer adapted to measure a characteristic external to the packer. The packer can also include a sensor that is adapted to measure a well annulus pressure.

With respect to claims 18 - 21: Willauer teaches in column 1, line 35 – column 4, line 67 and in Figures 1 – 10 a completion, comprising: a packer; a gauge above the

packer; the gauge communicating with an interior cavity of the packer. The reference further teaches a completion wherein the gauge is directly connected to the packer or wherein the gauge is positioned within the interior cavity of the packer. The reference further teaches a method for use in a well, comprising directly measuring a pressure in a setting chamber of a downhole tool with a pressure gauge.

With respect to claims 18 - 21: Willauer teaches in column 1, line 35 – column 4, line 67 and in Figures 1 – 10 a method comprising: positioning a plurality of gauges within a packer; measuring well characteristics at different positions within the well using the gauges. Willauer further teaches a method that further comprises measuring an annulus pressure with one of the gauges and measuring a setting chamber pressure within the packer with one of the gauges.

### Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 11, 17, 22 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Willauer in view of Delatorre et al (5,554,804).

With respect to claims 11, 17, 22 and 24: Willauer teaches the features as previously claimed except for wherein the sensor/pressure gauge is adapted to measure a tubing pressure. Delatorre et al teaches in column 2, lines 52 – 67 a method wherein the sensor/pressure gauge is adapted to measure a tubing pressure.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Willauer's invention in view of Delatorre et al, because reliability in a permanent installation type of well application is a very important consideration.

9. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Willauer in view of Alft et al (6,577,954).

With respect to claim 2: Willauer teaches the features as previously claimed except for wherein the sensor is a MEMS sensor. Alft et al teaches in column 33, line 66 – column 34, line 55 a method wherein the sensor is a MEMS sensor. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Willauer's invention in view of Alft et al, because MEMS sensors are conventional sensors.

10. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Willauer in view of Stephenson (US 2002/0163639).

With respect to claim 3: Willauer teaches the features as previously claimed except for wherein the sensor is a nanotechnology-based sensor. Stephenson teaches in paragraph [0012] a method wherein the sensor is a nanotechnology-based sensor. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Willauer's invention in view of Stephenson, because it is desirable to have sensors that are so small they can be embedded in a substrate.

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#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bryan A. Fuller whose telephone number is (571) 272-8119. The examiner can normally be reached on M - Th 7:30 - 5:00 and alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian E. Glessner can be reached on (571) 272-6843. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Brian E. Glessner

Supervisory Patent Examiner

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